

APPENDIX C
BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

**ON-SITE SOIL VAPOR WELL BORING LOGS AND WELL
CONSTRUCTION DIAGRAMS**

**GEOSYNTEC CONSULTANTS**

10875 Rancho Bernardo Rd, Suite 200
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Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING PVP-1****SHEET 1 OF 1****START DATE** 30 Jan 06**Elevation** 622.51 FT. MSL**FINISH DATE** 30 Jan 06**PROJECT** Evaluation Monitoring Program**LOCATION** Poway Landfill**PROJECT NUMBER** SC0233

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand (SP) 5YR 4/4 reddish brown, medium dense, dry.			Surface Completion 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 3 ft. concrete pad (3.75 cubic feet). Within PVC riser is sand (0.01 cubic feet) followed by hydrated granular bentonite (0.044 cubic feet). Probe is 1/4 in. OD HDPE tubing with a brass cap installed at the top. A locking cap is installed on top of the PVC riser.	Hand excavate upper 3 feet with shovel.
5	Highly Weathered Granitic Rock weathers to silt with sand (ML), 10YR 5/4 yellowish brown, very hard, dry, some medium sand. Becomes 7.5YR 4/3 brown with little 2.5YR 6/8 light red mottling.	/ \			Resume with direct push.
10	Weathers to sandy silt (ML), 10YR 4/3 brown, moist, very hard, medium sand.	/ \		Hydrated granular bentonite (0.3 cubic feet)	
15	@ 16 ft. becomes moderately to slightly weathered granitic rock 10YR 5/1 gray, moist, very dense, with little medium grained sand.	/ \		Dry granular bentonite (0.022 cubic feet) # 3 Sand filter pack (0.022 cubic feet) Porous synthetic probe tip.	Refusal at 18' removed sampler and attempted to push deeper with drop point and casing. Unable to advance deeper than 18'.
Total Depth 18'					
Veryl Wittig Professional Geologist No. 7115					

CONTRACTOR Vironex**EQUIPMENT** Geoprobe 6600**DRILL MTHD** Direct Push**DIAMETER** 2"**LOGGER** C. Gale**NORTHING** 32.96**EASTING** -117.02**ANGLE** Vertical**BEARING** -----**PRINTED** 29 Jun 06**REMARKS:****COORDINATE SYSTEM:**

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING PVP-1A****SHEET 1 OF 1****START DATE 20 Mar 06****Elevation 622.00 FT. MSL****FINISH DATE 20 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand (SP) 5 YR 4/4 reddish brown, medium density, fine to medium grained sand, dry, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 3 ft. concrete pad (3.75 cubic feet). Within PVC riser is 6 in. of sand (0.01 cubic feet) overlying 2 ft. of hydrated granular bentonite (0.044 cubic feet), probes are 1/4 in. OD HDPE tubing.	
5	Highly Weathered Granitic Rock weathers to silt with sand (ML), 10 YR 5/4 yellowish brown, very hard, fine to medium grained sand.			Hydrated granular bentonite (0.066 cubic feet)	
	@ 9 ft. becomes 7.5 YR 4/3 brown, moist.			Dry granular bentonite (0.044 cubic feet)	
10	@ 10 ft. weathers to silty sand (ML), 10 YR 4/3 brown, medium sand, moist.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel mesh probe tip.	
15	@ 15 ft. becomes with trace cobbles.				
	Moderately Weathered Granitic Rock weathers to poorly graded sand (SP), 10 YR 5/1 gray, few cobbles. little silt, medium grained sand, dense.				
	Total Depth = 19 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS: Due to moisture observed in soils, backfilled to 9 ft. with hydrated granular bentonite to build soil vapor well.

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING PVP-2A/2B****SHEET 1 OF 1****START DATE 30 Jan 06****Elevation 613.46 FT. MSL****FINISH DATE 30 Jan 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand with Gravel (SP) 5YR 4/3 reddish brown, medium dense, dry, trace silt, no odor.			Surface Completion 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 3 ft. concrete pad (3.75 cubic feet). Within PVC riser is sand (0.01 cubic feet) followed by hydrated granular bentonite (0.044 cubic feet). Probes are 1/4 in. OD HDPE tubing with brass caps installed at the top. A locking cap is installed on top of the PVC riser.	Hand excavated upper 3' with shovel.
	Poorly Graded Sand (SP) 10YR 2/4 dark yellowish brown, medium dense, dry, trace silt.				
5	Becomes 10YR 3/3 dark brown, loose, dry.			Hydrated granular bentonite (0.066 cubic feet)	Resume with direct push.
				Dry granular bentonite (0.022 cubic feet)	
10	Highly Weathered Granitic Rock weathers to silt (ML), 5YR 3/3 dark reddish brown, very stiff, dry, trace medium sand, with little clay.			Sand filter pack (0.022 cubic feet) Porous synthetic probe tip.	
				Hydrated granular bentonite (0.066 cubic feet)	
				Dry granular bentonite (0.022 cubic feet)	
				Sand filter pack (0.022 cubic feet) Porous synthetic probe tip.	
	Total Depth 13'				

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS: PVP-2A set at 8 ft. PVP-2B set at 13 ft.

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

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BORING PVP-3A/3B**SHEET 1 OF 1****START DATE 30 Jan 06****Elevation 621.31 FT. MSL****FINISH DATE 30 Jan 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233****GS FORM:
CORE3 10/00****BOREHOLE LOG**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand (SP) 2.5YR 4/3 reddish brown, medium sand, medium dense, dry.			Surface Completion 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 3 ft. concrete pad (3.75 cubic feet). Within PVC riser is sand (0.01 cubic feet) followed by hydrated granular bentonite (0.044 cubic feet). Probes are 1/4 in. OD HDPE tubing with brass cap installed at the top. A locking cap is installed on top of the PVC riser.	Hand excavated upper 3' with shovel.
5	@ 4 ft. becomes 2.5Y 5/3 brown, medium sand, loose, dry.				Resume with direct push.
	Highly Weathered Granitic Rock weathers to silty sand (SM), 2.5YR 4/6 red, dense, dry.			Hydrated granular bentonite (0.11 cubic feet)	
				Dry granular bentonite (0.022 cubic feet)	
10	@ 10ft. becomes 2.5YR 6/3 light reddish brown.			Sand filter pack (0.022 cubic feet) Porous synthetic probe tip.	
				Hydrated granular bentonite (0.066 cubic feet)	
	@ 13 ft. becomes 5YR 5/6 yellowish red.			Dry granular bentonite (0.022 cubic feet)	
				Sand filter pack (0.022 cubic feet) Porous synthetic probe tip.	
15	Total Depth 15'				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Vironex**EQUIPMENT** Geoprobe 6600**DRILL MTHD** Direct Push**DIAMETER** 2"**LOGGER** C. Gale**NORTHING** 32.96**EASTING** -117.02**ANGLE** Vertical**BEARING** -----**PRINTED** 29 Jun 06**REMARKS:** PVP-3A set at 10 ft. PVP-3B set at 15 ft.**COORDINATE SYSTEM:**

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

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GS FORM:
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BOREHOLE LOG**BORING PVP-4A****SHEET 1 OF 1****START DATE 20 Mar 06****Elevation 613.85 FT. MSL****FINISH DATE 20 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand (SP) 2.5 YR 4/3 reddish brown, dry, fine to medium grained sand, loose.				Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 4 ft. concrete pad (4 cubic feet). Within PVC riser is 6 in. of sand (0.044 cubic feet) overlying 2 ft. of hydrated granular bentonite (0.18 cubic feet), probe is 1/4 in. OD HDPE tubing.
	@ 4 ft. becomes 2.5 YR 5/3 brown.				Hydrated granular bentonite (0.044 cubic feet)
5					Dry granular bentonite (0.044 cubic feet)
	Extremely Weathered Granitic Rock weathers to silty sand (SM), 2.5 YR 4/4 red with little mottling, dry, medium dense, medium grained sand.				Sand filter pack (0.022 cubic feet) 6 in. stainless steel mesh probe tip.
	Total Depth = 8 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

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BORING PVP-4B**SHEET 1 OF 1****START DATE 20 Mar 06****Elevation 613.88 FT. MSL****FINISH DATE 20 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233****GS FORM:
CORE3 10/00****BOREHOLE LOG**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand (SP) 2.5 YR 4/3 reddish brown, dry, fine to medium grained sand, loose.				Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 4 ft. concrete pad (4 cubic feet). Within PVC riser is 6 in. of sand (0.044 cubic feet) overlying 2 ft. of hydrated granular bentonite (0.18 cubic feet), probe is 1/4 in. OD HDPE tubing.
5	@ 4 ft. becomes 2.5 YR 5/3 brown.				
10	Extremely Weathered Granitic Rock weathers to silty sand (SM), 2.5 YR 4/4 red with little mottling, dry, medium dense, fine to medium grained sand.				Hydrated granular bentonite (0.154 cubic feet)
					Dry granular bentonite (0.044 cubic feet)
					Sand filter pack (0.022 cubic feet)
	@ 13 ft. becomes moist.				6 in. stainless steel mesh probe tip.
	Total Depth = 13 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BOREHOLE LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06



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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING PVP-6****SHEET 1 OF 1****START DATE 20 Mar 06****Elevation 708.05 FT. MSL****FINISH DATE 20 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Extremely Weathered Granitic Rock weathers to sandy silt with gravel (ML) 2.5 YR 4/3 reddish brown, moist, firm, few angular gravel.				
	@ 2.5 ft. weathers to poorly graded sand (SP), 10 YR 5/4 yellowish brown, dry, medium dense, medium grained sand, few angular gravel.				
				Hydrated granular bentonite (0.011 cubic feet)	
				Dry granular bentonite (0.011 cubic feet)	
				Sand filter pack (0.022 cubic feet)	
5	@ 4.75 ft. becomes 10 YR 5/1 gray, medium to coarse grained sand, with angular gravel.				
	Total Depth = 5 ft.			6 in. stainless steel mesh probe tip.	

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.97
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

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GS FORM:
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BOREHOLE LOG**BORING PVP-7A****SHEET 1 OF 1****START DATE 21 Mar 06****Elevation 644.83 FT. MSL****FINISH DATE 21 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand with Gravel (COVER FILL) 10 YR 5/4 yellowish brown, moist, medium grained sand, angular gravel, with little clay. @ 1.5 ft. becomes dry. @ 3 ft. becomes 10 YR 5/1 gray. @ 4 ft. becomes 10 YR 5/1 gray, moist, medium grained sand, medium dense, with little gravel. @ 6.5 ft. becomes 10 YR 5/4 yellowish brown, moist, medium grained sand, medium dense, with some clay. @ 6.75 ft. becomes 10 YR 5/1 gray, moist, medium grained sand, medium dense.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 4 ft. concrete pad (4 cubic feet). Within PVC riser is 6 in. of sand (0.044 cubic feet) overlying 2 ft. of hydrated granular bentonite (0.18 cubic feet), probe is 1/4 in. OD HDPE tubing.	Top 3 ft. dug out with post hole digger and dig bar.
5					Resume with DP rig.
10	Waste Fill 10 YR 4/1 dark gray, loose, mild odor, municipal waste interbedded with poorly graded sand with gravel, 10 YR 5/4 yellowish brown, medium grained sand, medium density.			Hydrated granular bentonite (0.242 cubic feet)	
15	@ 13.5 ft. with some organic material; slight odor. @ 16 ft. becomes mostly organic material.			Dry granular bentonite (0.044 cubic feet) Sand filter pack (0.022 cubic feet) 6 in. stainless steel mesh probe tip.	
Total Depth = 17 ft.					
Veryl Wittig Professional Geologist No. 7115					

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

COORDINATE SYSTEM:
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GS FORM:
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BOREHOLE LOG**BORING PVP-7B****SHEET 2 OF 3****START DATE 21 Mar 06****Elevation 644.80 FT. MSL****FINISH DATE 21 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	@ 16 ft. becomes mostly organic material.				Pushing becomes difficult.
20					No recovery. Easier pushing, strong odor.
25					No recovery.
30	@ 28 ft. becomes black, wet.				Strong odor.

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/ WELL NO SAMPLE (VERY L) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

**GEOSYNTEC CONSULTANTS**

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING PVP-8****SHEET 1 OF 3****START DATE 21 Mar 06****Elevation 642.73 FT. MSL****FINISH DATE 21 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand with Gravel (COVER FILL) 10 YR 5/4 yellowish brown, moist, medium grained sand, angular gravel, with clay. @ 3 ft. becomes 10 YR 5/1 gray.				Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 4 ft. concrete pad (4 cubic feet). Within PVC riser is 6 in. of sand (0.044 cubic feet) overlying 2 ft. of hydrated granular bentonite (0.18 cubic feet), probe is 1/4 in. OD HDPE tubing.
5	Waste Fill 10 YR 4/1 dark gray, dry, medium grained sand, loose, mild paint-like odor, interbedded with poorly graded sand, 10 YR 5/4 yellowish brown, medium grained sand, moist, medium dense.				
10					Hydrated granular bentonite (0.3 cubic feet)
15	@ 14 ft. becomes 10 YR 2/1 black, dry, loose, strong odor.				

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

REVIEWER V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

GS FORM:
CORE3 10/00

BOREHOLE LOG

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
20	@ 19 ft. becomes 10 YR 5/4 yellowish brown, mostly organics (wood fragments), medium grained sand, dry, loose.			Dry granular bentonite (0.044 cubic feet)	
				Sand filter pack (0.022 cubic feet)	
				6 in. stainless steel mesh probe tip.	
				Hydrated granular bentonite (0.44 cubic feet)	
25	@ 23 ft. becomes mixed with paper, metal, wood, with strong odor.				
	@ 26 ft. becomes mixed with paper and organics.				
30	@ 27.5 becomes 10 YR 4/1 dark gray, dry, medium grained sand, lose, few angular gravel, mixed with some plastic, slight odor.				

CONTRACTOR	Cascade
EQUIPMENT	Geoprobe 6600
DRILL MTHD	Direct Push
DIAMETER	2"
LOGGER	C. Gale
REVIEW	

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSNTEC.GDT 29/6/06

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BORING PVP-8**SHEET 3 OF 3****START DATE 21 Mar 06****Elevation 642.73 FT. MSL****FINISH DATE 21 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**GS FORM:
CORE3 10/00**BOREHOLE LOG**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	@ 30.5 ft. becomes mostly organics @ 31 ft. becomes 5 Y 4/2 olive gray @ 31.5 ft. becomes 10 YR 2/1 black, mixed with plastic and paper.				15:35
35	Poorly Graded Sand (SP) 10 YR 5/1 gray, fine to medium grained sand, dry, medium dense.				15:40
	Highly Weathered Granitic Rock weathers to silty sand (SM), 10 YR 4/1 dark gray, fine sand, moist, no odor.				
40	Moderately Weathered Granitic Rock weathers to poorly graded gravel (GP).				
	Total Depth = 40 ft.				Backfilled to 20 ft. with granular bentonite to build vapor well.
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06



GEOSYNTEC CONSULTANTS

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BORING PVP-9

SHEET 1 OF 3

START DATE 22 Mar 06

Elevation 642.10 FT. MSL

FINISH DATE 22 Mar 06

PROJECT Evaluation Monitoring Program

LOCATION Poway Landfill

PROJECT NUMBER SC0233

GS FORM:
CORE3 10/00

BOREHOLE LOG

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand with Gravel (COVER FILL) 10 YR 4/3 light yellowish brown, moist, fine to medium grained sand, medium dense, with some angular gravel and clay.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 4 ft. concrete pad (4 cubic feet). Within PVC riser is 6 in. of sand (0.044 cubic feet) overlying 2 ft. of hydrated granular bentonite (0.18 cubic feet), probe is 1/4 in. OD HDPE tubing.	Post hole digger and dig bar used to 3 ft.
	@ 3 ft. becomes 10 YR 5/1 gray, dry.				Resumed with DP.
5	Waste Fill 10 YR 2/1 black, loose, dry, fine to medium grained sand, paint-like odor, mixed with plastic, organics and glass, interbedded with silty sand (fill), 10 Yr 3/3 dark brown, moist, medium dense, fine to medium grained sand with little gravel and silt.				
10				Hydrated granular bentonite (0.3 cubic feet)	Strong odor.
	@ 13.5 becomes 10 YR 5/4 yellowish brown, with plastic and glass				Strong odor.
15	@ 14.5 becomes 10 YR 2/1 black, with glass, plastic, and organics.				

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2'
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



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BORING PVP-9

SHEET 3 OF 3

START DATE 22 Mar 06

Elevation 642.10 FT. MSL

FINISH DATE 22 Mar 06

PROJECT Evaluation Monitoring Program

LOCATION Poway Landfill

PROJECT NUMBER SC0233

GS FORM:
CORE3 10/00

BOREHOLE LOG

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Same as above				
35					
	<u>Lean Clay with Sand and Gravel (CL)</u> 0 YR 3/3 dark brown, moist, very stiff, no odor.				
	@ 39 ft. becomes 10 YR 4/3 brown.				
40					Refusal encountered at 39 ft.
	Total Depth = 40 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2'
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BOREHOLE LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

**GEOSYNTEC CONSULTANTS**

10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING PVP-10A****SHEET 1 OF 1****START DATE 22 Mar 06****Elevation 643.12 FT. MSL****FINISH DATE 22 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand with Gravel (COVER FILL) 10 YR 5/4 yellowish brown, moist, medium grained sand, angular gravel, little cobbles and clay.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 4 ft. concrete pad (4 cubic feet). Within PVC riser is 6 in. of sand (0.044 cubic feet) overlying 2 ft. of hydrated granular bentonite (0.18 cubic feet), probe is 1/4 in. OD HDPE tubing.	Post Hole Digger and Dig Bar used to 3 ft. on 3/21/06.
	@ 3 ft. becomes 10 YR 5/1 gray.				
5	@ 4 ft. becomes 10 YR 5/3 brown, dry, soft, fine grained sand.			Hydrated granular bentonite (0.132 cubic feet)	Resume on 3/22/06 with DP rig.
10	Waste Fill 10 YR 2/1 black, dry, mixed with organics, glass, plastic, strong paint-like odor.			Dry granular bentonite (0.044 cubic feet)	
				Sand filter pack (0.022 cubic feet)	
				6 in. stainless steel mesh probe tip.	
				Hydrated granular bentonite (0.044 feet)	
	Total Depth = 14 ft.				Sleeve twisted in sampler due to piece of wood in hole. Backfilled with hydrated granular bentonite to 12 ft. to construct vapor well.

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

REVIEWER V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

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BORING PVP-10B**SHEET 1 OF 2****START DATE 22 Mar 06****Elevation 643.15 FT. MSL****FINISH DATE 22 Mar 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233****GS FORM:
CORE3 10/00****BOREHOLE LOG**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand with Gravel (COVER FILL) 10 YR 5/4 yellowish brown, moist, medium grained sand, angular gravel, little cobbles and clay. @ 3 ft. becomes 10 YR 5/1 gray. @ 4 ft. becomes 10 YR 5/3 brown, dry, soft, fine grained sand.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser, in a 3 ft. by 4 ft. concrete pad (4 cubic feet). Within PVC riser is 6 in. of sand (0.044 cubic feet) overlying 2 ft. of hydrated granular bentonite (0.18 cubic feet), probe is 1/4 in. OD HDPE tubing.	Post hole Digger and Dig Bar used to 3 ft. on 3/21/06.
5					Resume with DP rig on 3/22/06.
10	Waste Fill 10 YR 2/1 black, dry, mixed with organics, glass, plastic, strong paint-like odor.				
15	@14.5 ft. becomes mixed with glass, plastic and little organics.			Hydrated granular bentonite (0.42 cubic feet)	
20	Silty Sand (SM) 5 Y 5/2 olive gray, dry, loose, fine to medium grained sand, with gravel. @ 19 ft. becomes 10 YR 5/3 brown.				

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

REVIEWER V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL NO SAMPLE (VERY L) SC0233.GPJ GEOSYNTEC.GDT 29/6/06



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GS FORM:
CORE3 10/00

BOREHOLE LOG

BORING PVP-10B

SHEET 2 OF 2

START DATE 22 Mar 06

Elevation 643.15 FT. MSL

FINISH DATE 22 Mar 06

PROJECT Evaluation Monitoring Program

LOCATION Poway Landfill

PROJECT NUMBER SC0233

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
25	<p>@ 22 ft. becomes olive gray, moist, medium dense, fine grained sand.</p> <p>Highly Weathered Granitic Rock weathers to sandy silt (ML), 5 Y 5/2 olive gray, dry, moist, firm, fine grained sand, no odor.</p> <p>@ 23.5 becomes dry</p> <p>Moderately Weathered Granitic Rock weathers to silty sand (SM), 7.5 YR 4/3 brown, with 2.5 YR 6/8 red mottling, dry, hard, fine to medium grained sand, with angular gravel.</p> <p>Total depth = 25 ft.</p>			<p>Dry granular bentonite (0.044 cubic feet)</p> <p>Sand filter pack (0.022 cubic feet)</p> <p>6 in. stainless steel mesh probe tip.</p>	<p>Pushing more difficult.</p>

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Cascade
EQUIPMENT Geoprobe 6600
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

**OFF-SITE SOIL VAPOR WELL BORING LOGS AND WELL
CONSTRUCTION DIAGRAMS**

**GEOSYNTEC CONSULTANTS**

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-1A****SHEET 1 OF 1****START DATE 11 Apr 06****Elevation 620.83 FT. MSL****FINISH DATE 11 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained, dark yellowish brown [10 YR 3/4], moist, trace gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hand Auger to 3 ft. bgs.
	Silty Sand (SM) fine grained, dark yellowish brown [10 YR 3/4], moist, trace gravel, no odor.			Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
				Hydrated granular bentonite (0.011 cubic feet)	Direct push to target depth.
				Dry granular bentonite (0.011 cubic feet)	
				Sand filter pack (0.022 cubic feet)	
				6 in. stainless steel wire screen.	
5	Total Depth = 5 ft.				

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
LOGGER D. Skippon **REVIEWER** V. Wittig **PRINTED** 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

**GEOSYNTEC CONSULTANTS**

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-2A****SHEET 1 OF 1****START DATE 11 Apr 06****Elevation 615.00 FT. MSL****FINISH DATE 11 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , fine to medium grained, reddish brown [5 YR 4/4], moist, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hand auger to 3 ft. bgs.
				Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
				Hydrated granular bentonite (0.011 cubic feet)	
				Dry granular bentonite (0.011 cubic feet)	Direct push to target depth.
	Sand (SP) fine to medium grained, yellowish brown [10YR 5/4], moist, no odor.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	
5	Total Depth = 5 ft.				
Veryl Wittig Professional Geologist No. 7115					

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
LOGGER D. Skippon **REVIEWER** V. Wittig **PRINTED** 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-2B****SHEET 1 OF 1****START DATE 11 Apr 06****Elevation 615.07 FT. MSL****FINISH DATE 11 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , fine to medium grained, reddish brown [5 YR 4/4], moist, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hand auger to 3 ft. bgs.
				Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
5	Sand (SP) fine to medium grained, yellowish brown [10YR 5/4], moist, no odor.			Hydrated granular bentonite (0.11 cubic feet)	Direct push to target depth.
	Silty Sand (SM) fine grained, moist to wet, trace clay, no odor.			Dry granular bentonite (0.022 cubic feet)	
10	Extremely Weathered Granitic Rock orange with black specs, [10 YR 5/3], 50% quartz, 30% mafic, 20% other minerals, dry.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	
	Total Depth = 10 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER D. Skippon **REVIEWER** V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BOREHOLE LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTec.GDT 29/6/06

**GEOSYNTEC CONSULTANTS**

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SHEET 1 OF 1**BORING VW-3A****START DATE 12 Apr 06****Elevation 605.86 FT. MSL****FINISH DATE 12 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

GS FORM:
CORE3 10/00

BOREHOLE LOG

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained, reddish brown [2.5 YR 4/4], dry, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hand auger to 3 ft. bgs.
				Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
				Hydrated granular bentonite (0.011 cubic feet)	
				Dry granular bentonite (0.011 cubic feet)	Direct push to target depth.
				Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	
5	Total Depth = 5 ft.				
Veryl Wittig Professional Geologist No. 7115					

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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SHEET 1 OF 1**BORING VW-3B****START DATE 12 Apr 06****Elevation 605.90 FT. MSL****FINISH DATE 12 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

GS FORM:
CORE3 10/00

BOREHOLE LOG

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained, reddish brown [2.5 YR 4/4], dry, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hand auger to 3 ft. bgs.
				Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
5				Hydrated granular bentonite (0.088 cubic feet)	Direct push to target depth.
	Silty Sand (SM) fine to medium grained, reddish brown [2.5 YR 4/4], wet, no odor.				
	Extremely Weathered Granitic Rock weathers to well-graded sand with silt, brown, [7.5 YR 4/4], moist, very dense, trace gravel.			Dry granular bentonite (0.044 cubic feet)	
10				Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	
	Total Depth = 10 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER C. Gale

REVIEWER V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BOREHOLE LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-4A****SHEET 1 OF 1****START DATE 12 Apr 06****Elevation 604.69 FT. MSL****FINISH DATE 12 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained, olive brown [2.5 Y 4/3], loose, dry, trace gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hand auger to 3 ft. bgs.
				Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
				Hydrated granular bentonite (0.011 cubic feet)	
				Dry granular bentonite (0.011 cubic feet)	Direct push to target depth.
	Silty Sand (SM) fine to medium grained, olive brown [2.5 Y 4/3], loose, dry, trace gravel, no odor.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	
5	Total Depth = 5 ft.				

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"

LOGGER L. Morales **REVIEWER** V. Wittig **PRINTED** 29 Jun 06

NORTHING 32.96
EASTING -117.02
ANGLE Vertical

BEARING -----

REMARKS:

COORDINATE SYSTEM:
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**GEOSYNTEC CONSULTANTS**

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-4B****SHEET 1 OF 1****START DATE 12 Apr 06****Elevation 604.71 FT. MSL****FINISH DATE 12 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained, olive brown [2.5 Y 4/3], loose, dry, trace gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hand auger to 3 ft. bgs.
				Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
5	Silty Sand (SM) fine to medium grained, olive brown [2.5 Y 4/3], loose, dry, trace gravel, no odor.			Hydrated granular bentonite (0.088 cubic feet)	Direct push to target depth.
				Dry granular bentonite (0.044 cubic feet)	
10	Extremely Weathered Granitic Rock weathers to silty sand (SM), brown, [10 YR 4/3], moist, very dense, trace gravel.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	
	Total Depth = 10 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Vironex**EQUIPMENT** Geoprobe**DRILL MTHD** Direct Push**DIAMETER** 2"**LOGGER** L. Morales **REVIEWER** V. Wittig**NORTHING** 32.96**EASTING** -117.02**ANGLE** Vertical**BEARING** -----**PRINTED** 29 Jun 06**REMARKS:****COORDINATE SYSTEM:**

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

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BORING VW-5A**SHEET 1 OF 1****START DATE 13 Apr 06****Elevation 606.09 FT. MSL****FINISH DATE 13 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233****GS FORM:
CORE3 10/00****BOREHOLE LOG**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained sand, 10YR 4/4 dark yellowish brown, moist, with gravel, no odor. @ 1 ft. becomes trace gravel.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet). Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	Hollow stem auger to 3 ft. bgs.
	Silty Sand (SM) fine to medium grained sand, 10YR 4/3 brown [10YR 4/3], moist, with gravel, no odor.			Hydrated granular bentonite (0.011 cubic feet) Dry granular bentonite (0.011 cubic feet) Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	Direct push to target depth.
5	Total Depth = 5 ft.				

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"

LOGGER L. Morales **REVIEWER** V. Wittig **PRINTED** 29 Jun 06

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----

REMARKS:

COORDINATE SYSTEM:
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GS FORM:
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BOREHOLE LOG**BORING VW-5B****SHEET 1 OF 1****START DATE 13 Apr 06****Elevation 606.10 FT. MSL****FINISH DATE 13 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained sand, 10YR 4/4 dark yellowish brown, moist, with gravel, no odor. @ 1 ft. becomes trace gravel.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet). Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	Hollow stem auger to 3 ft. bgs.
5	Silty Sand (SM) fine to medium grained sand, 10YR 4/3 brown [10YR 4/3], moist, with gravel, no odor. @ 5 ft. becomes dense.			Hydrated granular bentonite (0.088 cubic feet)	Direct push to target depth.
	@ 8 ft. with trace gravel.			Dry granular bentonite (0.044 cubic feet)	
10	Total Depth = 10 ft.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"

LOGGER L. Morales **REVIEWER** V. Wittig **PRINTED** 29 Jun 06

NORTHING 32.96
EASTING -117.02
ANGLE Vertical

BEARING -----

REMARKS:

COORDINATE SYSTEM:
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BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/6/06

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GS FORM:
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BOREHOLE LOG**BORING VW-6A****SHEET 1 OF 1****START DATE 13 Apr 06****Elevation 603.44 FT. MSL****FINISH DATE 13 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , fine to medium grained sand, dark yellowish brown [10YR 4/4], moist, trace gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hollow stem auger to 3 ft. bgs.
	@ 2.5 ft. becomes 7.5 YR 3/2 dark brown. Silty Sand (SM) fine to medium grained sand, dark brown [7.5 YR 3/2], moist, trace gravel, no odor.			Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
				Hydrated granular bentonite (0.011 cubic feet)	
				Dry granular bentonite (0.011 cubic feet)	Direct push to target depth.
				Sand filter pack (0.022 cubic feet)	
				6 in. stainless steel wire screen.	
5	Total Depth = 5 ft.				

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex**EQUIPMENT** Geoprobe**DRILL MTHD** Direct Push**DIAMETER** 2"**LOGGER** L. Morales **REVIEWER** V. Wittig**NORTHING** 32.96**EASTING** -117.02**ANGLE** Vertical**BEARING** -----**PRINTED** 29 Jun 06**REMARKS:****COORDINATE SYSTEM:**

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-6B****SHEET 1 OF 1****START DATE 13 Apr 06****Elevation 603.44 FT. MSL****FINISH DATE 13 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , fine to medium grained sand, dark yellowish brown [10YR 4/4], moist, trace gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hollow stem auger to 3 ft. bgs.
	@ 2.5 ft. becomes 7.5 YR 3/2 dark brown. Silty Sand (SM) fine to medium grained sand, dark brown [7.5 YR 3/2], moist, trace gravel, no odor.			Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
5	@ 5 ft. becomes dense.			Hydrated granular bentonite (0.088 cubic feet)	Direct push to target depth.
	@ 8.5 ft. becomes 5 Y 4/6 reddish brown.			Dry granular bentonite (0.044 cubic feet)	
10	Total Depth = 10 ft.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"

LOGGER L. Morales **REVIEWER** V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

**GEOSYNTEC CONSULTANTS**

10875 Rancho Bernardo Rd, Suite 200
San Diego, CA 92127
Tel: (858) 674-6559 Fax: (858) 674-6586

GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-7B****SHEET 1 OF 1****START DATE 13 Apr 06****Elevation 599.82 FT. MSL****FINISH DATE 13 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained sand, brown [10YR 4/3], moist, trace gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Begin direct push to 10 ft. then auger to 3 ft.
	Silty Sand (SM) fine to medium grained sand, brown [10YR 4/3], moist, dense, with gravel, no odor.			Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
5	@ 4.2 ft. becomes 7.5 YR 3/2 dark brown.			Hydrated granular bentonite (0.088 cubic feet)	
	@ 7.9 ft. becomes moist to wet.			Dry granular bentonite (0.044 cubic feet)	
	@ 9 ft. becomes very dense.			Sand filter pack (0.022 cubic feet)	
10	@ 9.8 ft. becomes dry.			6 in. stainless steel wire screen.	
	Total Depth = 10 ft.				
Veryl Wittig Professional Geologist No. 7115					

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER L. Morales **REVIEWER** V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BORING VW-8A**SHEET 1 OF 1****START DATE 13 Apr 06****Elevation 596.61 FT. MSL****FINISH DATE 13 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**GS FORM:
CORE3 10/00**BOREHOLE LOG**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained sand, brown [10YR 4/3], dry, trace gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hollow stem auger to 3 ft. bgs.
	Silty Sand (SM) fine to medium grained sand, dark brown [7.5 YR 3/2], dry, trace gravel, no odor.			Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
5	Total Depth = 5 ft.			Hydrated granular bentonite (0.011 cubic feet) Dry granular bentonite (0.011 cubic feet) Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	Direct push to target depth.
Veryl Wittig Professional Geologist No. 7115					

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"

LOGGER L. Morales **REVIEWER** V. Wittig **PRINTED** 29 Jun 06

NORTHING 32.96
EASTING -117.02
ANGLE Vertical

BEARING -----

REMARKS:

COORDINATE SYSTEM:
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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-8B****SHEET 1 OF 1****START DATE 13 Apr 06****Elevation 596.67 FT. MSL****FINISH DATE 13 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained sand, brown [10YR 4/3], dry, trace gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hollow stem auger to 3 ft. bgs.
	Silty Sand (SM) fine to medium grained sand, dark brown [7.5 YR 3/2], dry, trace gravel, no odor.			Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
5				Hydrated granular bentonite (0.088 cubic feet)	Direct push to target depth.
	@ 8 ft. becomes moist.			Dry granular bentonite (0.044 cubic feet)	
10	Total Depth = 10 ft.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex**EQUIPMENT** Geoprobe**DRILL MTHD** Direct Push**DIAMETER** 2"**LOGGER** L. Morales **REVIEWER** V. Wittig**NORTHING** 32.96**EASTING** -117.02**ANGLE** Vertical**BEARING** -----**PRINTED** 29 Jun 06**REMARKS:****COORDINATE SYSTEM:**

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-9****SHEET 1 OF 1****START DATE 12 Apr 06****Elevation 601.13 FT. MSL****FINISH DATE 12 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Poorly graded sand with silt (SM), fine to medium grained sand, brown [7.5 YR 4/4], dry, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet). Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	Hollow stem auger to 3 ft. bgs.
	Poorly graded sand with silt (SM) fine to medium grained sand, mottled 7.5 YR 3/4 dark brown and 10 YR 5/4 yellowish brown, dry, no odor. @ 3.5 ft. becomes 2.5R 5/3 light olive brown.			Hydrated granular bentonite (0.011 cubic feet) Dry granular bentonite (0.011 cubic feet) Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	Direct push to target depth.
5	@ 4.5 ft. becomes 7.5 YR 4/3 brown. Total Depth = 5 ft.				
Veryl Wittig Professional Geologist No. 7115					

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER L. Morales **REVIEWER** V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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BORING VW-10**SHEET 1 OF 1****START DATE 12 Apr 06****Elevation 619.23 FT. MSL****FINISH DATE 12 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**GS FORM:
CORE3 10/00**BOREHOLE LOG**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained sand, reddish brown [2.5 YR 4/4], dry, trace coarse grained sand, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet). Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	Hollow stem auger to 3 ft. bgs.
				Hydrated granular bentonite (0.011 cubic feet) Dry granular bentonite (0.011 cubic feet) Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	Direct push to target depth.
5	Total Depth = 5 ft.				

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex**EQUIPMENT** Geoprobe**DRILL MTHD** Direct Push**DIAMETER** 2"**LOGGER** L. Morales **REVIEWER** V. Wittig**NORTHING** 32.96**EASTING** -117.02**ANGLE** Vertical**BEARING** -----**PRINTED** 29 Jun 06**REMARKS:****COORDINATE SYSTEM:**

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BORING VW-11**SHEET 1 OF 1****START DATE 13 Apr 06****Elevation 598.18 FT. MSL****FINISH DATE 13 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233****GS FORM:
CORE3 10/00****BOREHOLE LOG**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand (SM), fine to medium grained sand, olive brown [2.5 Y 4/3], dry, trace coarse grained sand, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet).	Hollow stem auger to 3 ft. bgs.
				Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	
	Silty Sand (SM) medium to coarse grained sand, olive brown [2.5 Y 4/3], dry, trace coarse grained sand, no odor.			Hydrated granular bentonite (0.011 cubic feet)	Direct push to target depth.
	@ 4 ft. becomes 2.5 Y 4/2 dark grayish brown.			Dry granular bentonite (0.011 cubic feet)	
5				Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	
	Total Depth = 5 ft.				

Veryl Wittig
Professional Geologist No. 7115

CONTRACTOR Vironex**EQUIPMENT** Geoprobe**DRILL MTHD** Direct Push**DIAMETER** 2"**LOGGER** L. Morales **REVIEWER** V. Wittig**NORTHING** 32.96**EASTING** -117.02**ANGLE** Vertical**BEARING** -----**PRINTED** 29 Jun 06**REMARKS:****COORDINATE SYSTEM:**

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-12****SHEET 1 OF 1****START DATE 28 Apr 06****Elevation 576.97 FT. MSL****FINISH DATE 28 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill Silty Sand with gravel (SM), medium grained sand, dark brown [10YR 3/3], dry, no odor. @ 2 ft. becomes 7.5 YR 3/4 dark brown with trace gravel. Silty Sand (SM) medium grained sand, dark brown [10YR 3/3], dry, trace clay and gravel, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet). Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing. Hydrated granular bentonite (0.011 cubic feet) Dry granular bentonite (0.011 cubic feet) Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	Hand auger to 3 ft. bgs. Direct push to target depth.
5	Total Depth = 5 ft.				
Veryl Wittig Professional Geologist No. 7115					

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2'
LOGGER C. Gale

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:



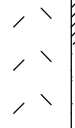
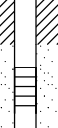
COORDINATE SYSTEM:
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GS FORM:
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BOREHOLE LOG**BORING VW-13****SHEET 1 OF 1****START DATE 28 Apr 06****Elevation 583.41 FT. MSL****FINISH DATE 28 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill Silty Sand with gravel (SM), medium grained sand, very dark brown [10 YR 3/2], medium grained sand, dry, no odor. @ 1.5 ft. becomes 2.5 Y 5/3 light olive brown.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet). Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	Hollow stem auger to 3 ft. bgs.
	Extremely Weathered Granitic Rock weathers to silty sand (SM), olive brown [2.5 Y 4/3], dry, no odor.			Hydrated granular bentonite (0.011 cubic feet) Dry granular bentonite (0.011 cubic feet) Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	Direct push to target depth.
	Total Depth = 5 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2'
LOGGER C. Gale

REVIEWER V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:
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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING VW-14****SHEET 1 OF 1****START DATE 28 Apr 06****Elevation 612.11 FT. MSL****FINISH DATE 28 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Asphalt 0-3" Fill , Silty Sand with gravel (SM), medium sand, dark brown [10YR 3/3], moist, no odor.			Surface Completion; 7 in. steel vault, 3 ft. of 4" PVC riser in a 4 ft. by 3 ft. concrete pad (5 cubic feet). Within PVC riser is sand (0.045 cubic feet) followed by hydrated granular bentonite (0.225 cubic feet), probe is 1/4 in. Teflon FEP tubing.	Hollow stem auger to 3 ft. bgs.
	Silty Sand with gravel (SM) medium sand, olive brown [2.5 Y 4/3], dry, no odor.			Hydrated granular bentonite (0.011 cubic feet) Dry granular bentonite (0.011 cubic feet)	Direct push to target depth.
	Extremely Weathered Granitic Rock weathers to sandy clay with gravel (CL), yellowish brown [10 YR 5/4], dry, no odor.			Sand filter pack (0.022 cubic feet) 6 in. stainless steel wire screen.	
	Total Depth = 5 ft.				
	Veryl Wittig Professional Geologist No. 7115				

CONTRACTOR Vironex
EQUIPMENT Geoprobe
DRILL MTHD Direct Push
DIAMETER 2'
LOGGERS S. McClain **REVIEWER** V. Wittig

NORTHING 32.96
EASTING -117.02
ANGLE Vertical
BEARING -----
PRINTED 29 Jun 06

REMARKS:

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**GROUNDWATER MONITOR WELL BORING LOGS AND WELL
CONSTRUCTION DIAGRAMS**

**GEOSYNTEC CONSULTANTS**

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GS FORM:
CORE3 10/00

BOREHOLE LOG**BORING POGW-20****SHEET 1 OF 3****START DATE 10 Apr 06****Elevation 620.00 FT. MSL****FINISH DATE 10 Apr 06****PROJECT Evaluation Monitoring Program****LOCATION Poway Landfill****PROJECT NUMBER SC0233**

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand (SP) moist, yellowish brown [10 YR 5/6], fine to medium grained sand.			Surface Completion - 12-inch well box set in a 4-foot by 4-foot concrete pad (Approximately 6 cubic feet).	Begin hollow stem auger.
5	@ 3.5 ft. becomes dry			2-inch diameter schedule 40 PVC casing.	
10				Volclay grout (6.7 cubic feet).	
15	Silty Sand (SM) moist, reddish brown [5 YR 4/4], fine to medium grained sand with trace clay.				
20					

CONTRACTOR Tri-County Drilling**EQUIPMENT** All terrain HSA**DRILL MTHD** Auger/Rock Coring**DIAMETER** 8" to 3.9"**LOGGERS** S. McClain **REVIEWER** V. Wittig**NORTHING** 32.96**EASTING** -117.02**ANGLE** Vertical**BEARING** -----**PRINTED** 29 Jun 06**REMARKS:****COORDINATE SYSTEM:**

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BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTec.GDT 29/6/06



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BORING POGW-21

SHEET 1 OF 2

START DATE 11 Apr 06

Elevation 617.92 FT. MSL

FINISH DATE 11 Apr 06

PROJECT Evaluation Monitoring Program

LOCATION Poway Landfill

PROJECT NUMBER SC0233

GS FORM:
CORE3 10/00

BOREHOLE LOG

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOLIC LOG	PROBE LOG	Probe Construction Material	COMMENTS
	Poorly Graded Sand with Silt (SP) moist, fine to medium grained sand, dark reddish brown, loose.			Surface Completion - 12-inch well box set in a 4-foot by 4-foot concrete pad (Approximately 6 cubic feet).	Begin hollow stem auger.
5	@ 4 ft. becomes dry.			2-inch diameter schedule 40 PVC casing.	
10	@ 10 ft. increase in fines.			Volclay grout (3.2 cubic feet).	
15	@ 12 ft. becomes moist.			Hydrated Sinclair high yielding 1/4" bentonite chips (1 cubic foot).	
	Granodiorite (Kg) drills to highly weathered granodiorite, moist, fine to medium grained, brown, medium dense.			RMC Pacific #3 sand (5.7 cubic feet).	Drilling becomes difficult.
20					

CONTRACTOR Tri-County Drilling

EQUIPMENT All terrain HSA

DRILL MTHD Auger/Rock Coring

DIAMETER 8" to 3.9"

LOGGERS S. McClain REVIEWER V. Wittig

NORTHING 32.96

EASTING -117.02

ANGLE Vertical

BEARING -----

PRINTED 29 Jun 06

REMARKS:

COORDINATE SYSTEM:

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BORING LOG W/ WELL NO SAMPLE (VERYL) SC0233.GPJ GEOSYNTEC.GDT 29/06/06

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